

Generating Random Numbers

The NumPy library has a few methods for generating random numbers. However, we are only going to focus on one method.

We will use the `randint()` method. This method generates random integers.

Randint

Code:

```
# This returns a random integer between 0 to 4
np.random.randint(5)
```

```
# This returns a random integer between 0 to 9
np.random.randint(10)
```

```
# This returns a random integer between 100 to 199
np.random.randint(100,200)
```

```
# This returns 6 random integers between 100 to 199. The returned integers are stored in a NumPy array (think of it as something like a list of values for now)
np.random.randint(100,200,6)
```

```
# This returns 31 random floats between 5.00 to 10.00. Why floats? Hint: 555/100 = 5.55. The returned integers are stored in a NumPy array
np.random.randint(500,1000,31)/100
```

```
# This returns 31 random floats between 0.05 to 20.000. The returned integers are stored in a NumPy array.
np.random.randint(50,20000,31)/1000
```

```
# Creates a 100 by 4 dataframe of random integers between 2 to 50. The column names are "apple", "banana", "cherry" and "orange"
df = pd.DataFrame(np.random.randint(20,50,size=(100, 4)), columns=["apple", "banana", "cherry","orange"])
```

All code can be found in the file "Generate Random Numbers.ipynb" under this chapter's Dropbox.

p.s. Remember your imports:

```
import numpy as np
import pandas as pd
```